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Exposure to Endocrine-Disrupting Chemicals during Pregnancy and Weight at 7 Years of Age: A Multi-pollutant Approach

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Description of the Imputation Procedure

Table S1: Crude and adjusted associations (beta coefficient, 95% CI) between maternal exposure to tertiles of 27 EDCs and child zBMI at age 7 years, single pollutant models, for complete case and imputed data (n=470).

Table S2: Summery of the Factors Loading for Four Factors Using Principle Component Analysis with Varimax Rotation.

Figure S1. Missing patterns of the 27 EDCs and 470 participants. All 27 EDCs variables had missing values. Only 40 participants had complete data without any missing value. Out of 12,690 values, 28.7% had a complete data. There were 74 different patterns of missingness for the 27 exposures. Abbreviations: As: Arsenic, BDEs: polybrominated diphenyl ethers congeners, bHCH: beta-hexachlorohexane, BPA: bisphenol A, Cd: Cadmium, DDE: dichlorodi-phenyldichloroethylene, DEHP: di-2-ethylhexyl phthalate, DEP: di-ethyl phthalate, DINP: di-isononyl phthalate, DnBP: di-n-butyl phthalate, EDCs: endocrine disrupting chemical, HCB:hexachlorobenzene, Hg: Mercury, MBzP: mono-benzyl phthalate, MEHHP: mono-(2-ethyl-5-hydroxyhexyl) phthalate, MEHP: mono-(2-ethylhexyl) phthalate, MEOHP: mono-(2-ethylhexyll) phthalate, MEOHP: mono-(2-ethylhexyll) phthalate, MEOHP: mono-(2-ethylhexyll) phthalate, MEOHP: mono-(2-ethy

ethyl-5-oxohexyl) phthalate, MEP: mono-ethyl phthalate, MiBP: mono-iso-butyl phthalate, MnBP: mono-n-butyl phthalate, Pb: Lead, PCB: polychlorinated biphenyls congeners, p_2cxMMHP/ MCMHP: mono-(2-carboxyhexyl) phthalate, p_5cxMEPP/ MECPP: mono(2-ethyl-5-carboxypentyl), p_7OHMMeOP: mono(4-methyl-7-hydroxyoctyl).

Figure S2. Pearson correlation coefficients matrix of the 27 EDCs exposures. Abbreviations: As: Arsenic, bHCH: beta-hexachlorohexane, BPA: bisphenol A, Cd: Cadmium, DDE: dichlorodi-phenyldichloroethylene, EDCs: endocrine disrupting chemical, HCB: hexachlorobenzene, Hg: Mercury, MBzP: mono-benzyl phthalate, MCMHP: mono-(2-carboxyhexyl) phthalate, MECPP: mono(2-ethyl-5-carboxypentyl), MEHHP: mono-(2-ethyl-5-hydroxyhexyl) phthalate, MEHP: mono-(2-ethylhexyl) phthalate, MEOHP: mono-(2-ethyl-5-oxohexyl) phthalate, MEP: mono-ethyl phthalate, MiBP: mono-iso-butyl phthalate, MnBP: mono-n-butyl phthalate, Pb: Lead, PBDEs: polybrominated diphenyl ethers congeners, PCBs: polychlorinated biphenyls congeners, X_7OHMMeOP: mono(4-methyl-7-hydroxyoctyl).

Figure S3. Crude and adjusted association between maternal exposure to tertiles of 27 EDCs and risk of overweight child (relative risks (RR), 95% CI) at age 7 years using, a single pollutant models, for complete case and imputed data (n=470). Abbreviations: As: Arsenic, BDE: polybrominated diphenyl ethers congeners, bHCH: beta-hexachlorohexane, BPA: bisphenol A, Cd: Cadmium, CI: confidence interval, DDE: dichlorodi-phenyldichloroethylene, EDCs: endocrine disrupting chemical, HCB: hexachlorobenzene, Hg: Mercury, MBzP: mono-benzyl phthalate, MCMHP: mono-(2-carboxyhexyl) phthalate, MECPP: mono(2-ethyl-5-carboxypentyl), MEHHP: mono-(2-ethyl-5-hydroxyhexyl) phthalate, MEHP: mono-(2-ethyl-beta-beta) phthalate, MEP: mono-ethyl phthalate, MiBP: mono-iso-butyl phthalate, MnBP: mono-n-butyl phthalate, Pb: Lead, sPCB: polychlorinated biphenyls congeners, 70HMMeOP: mono(4-methyl-7-hydroxyoctyl).